

# CV-BE Series

Surface Mount Type Miniature,  
Super low profile 3.9mm height



CV-BE series is to change height from 4.5mm of CV-BD which is a conventional low profile surface mount type capacitor, to be a lower profile 3.9mm which is the first time in the capacitor industry.

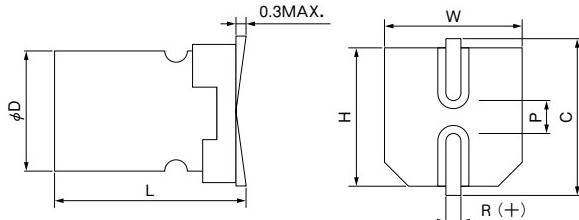
Solvent proof (within 2 minutes).

CV-BE ← low profile → CV-BD

## Specifications

| Items   |                                       | Specifications   |   |      |      |         |
|---|---------------------------------------|--|---|------|------|---------|
| Rated voltage (V)   | 4                                     | 6.3  | 10                                      | 16   | 25   |         |
| Operating temperature range (°C)                                |                                       |  | -40 to +85                              |      |      |         |
| Capacitance tolerance (%)                                       |                                       |  | ±20                                     |      |      | (120Hz) |
| Tangent of loss angle (tan δ) (MAX.) (120Hz)                    | 0.40                                  | 0.30   | 0.24                                    | 0.20 | 0.16 |         |
| Leakage current (L.C.) (μA/after 2min.) (MAX.)                  |                                       |  | The greater value of either 0.01CV or 3 |      |      |         |
| Impedance (120Hz) ratio at low temperature (MAX.)               | Z <sub>-25°C</sub> /Z <sub>20°C</sub> | 7  | 4                                       | 3    | 2    | 2       |
|   | Z <sub>-40°C</sub> /Z <sub>20°C</sub> | 15   | 10                                      | 8    | 6    | 4       |
| High-temperature load<br>85°C 1000hrs.<br>rated voltage applied | △C/C                                  | Within ±25% of the initial value   |   |      |      |         |
|   | tan δ                                 | ≤ Twice the initial standard   |   |      |      |         |
|   | L.C.                                  | ≤ The initial standard   |   |      |      |         |
| Resistance to soldering heat                                    | Test                                  | Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature. |   |      |      |         |
|   | △C/C                                  | Within ±10% of the initial value   |   |      |      |         |
|   | tan δ                                 | ≤ The initial standard   |   |      |      |         |
|   | L.C.                                  | ≤ The initial standard   |   |      |      |         |
| Other characteristics   |                                       | Conform to IEC 60384-18  |   |      |      |         |

## Dimensions



| (Unit : mm) |                                   |        |        |        |            |        |
|-------------|-----------------------------------|--------|--------|--------|------------|--------|
| D +0.5MAX.  | L <sup>+0.1</sup> <sub>-0.2</sub> | W ±0.2 | H ±0.2 | C ±0.2 | R          | P ±0.2 |
| 5           | 3.9                               | 5.3    | 5.3    | 6.0    | 0.5 to 0.8 | 1.4    |
| 6.3         | 3.9                               | 6.6    | 6.6    | 7.3    | 0.5 to 0.8 | 2.2    |

## Size List

| μF \ V | 4       | 6.3   | 10      | 16      | 25      |         |
|--------|---------|-------|---------|---------|---------|---------|
| 10     |         |       |         | 5×3.9   | 25      | 5×3.9   |
| 22     |         |       | 5×3.9   | 35      | 6.3×3.9 | 45      |
| 33     |         | 5×3.9 | 40      | 6.3×3.9 | 50      | 6.3×3.9 |
| 47     | 5×3.9   | 40    | 6.3×3.9 | 50      | 6.3×3.9 | 55      |
| 68     | 6.3×3.9 | 60    | 6.3×3.9 | 60      |         |         |
| 100    | 6.3×3.9 | 70    |         |         |         |         |

Model No.

16CV22BE

φDXL

Ripple current

mA r.m.s.  
(120Hz, 85°C)

Capacitance symbol

Rated voltage